

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P954828

Luminaire Tested: **GALN-SB8A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25548 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



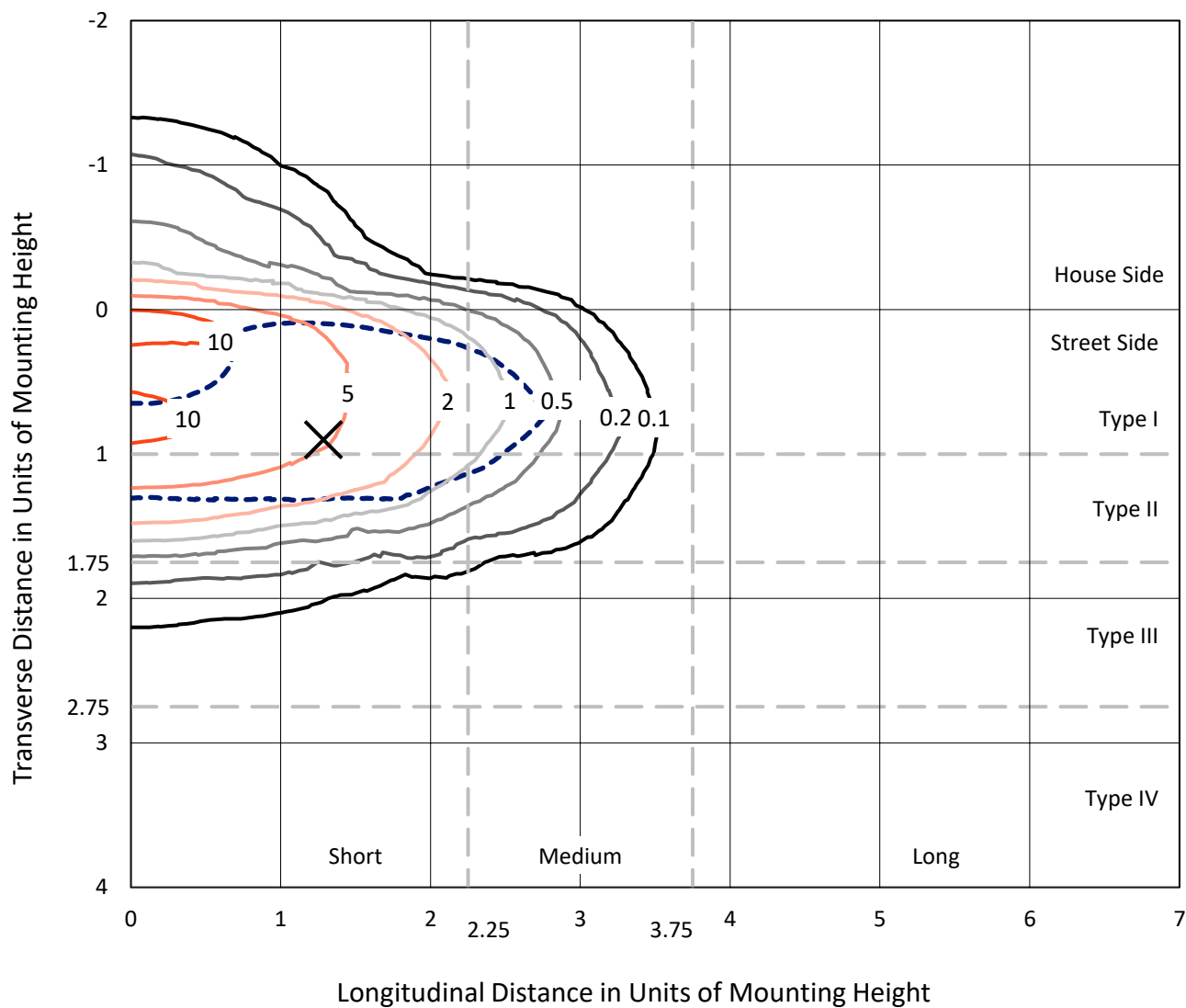
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

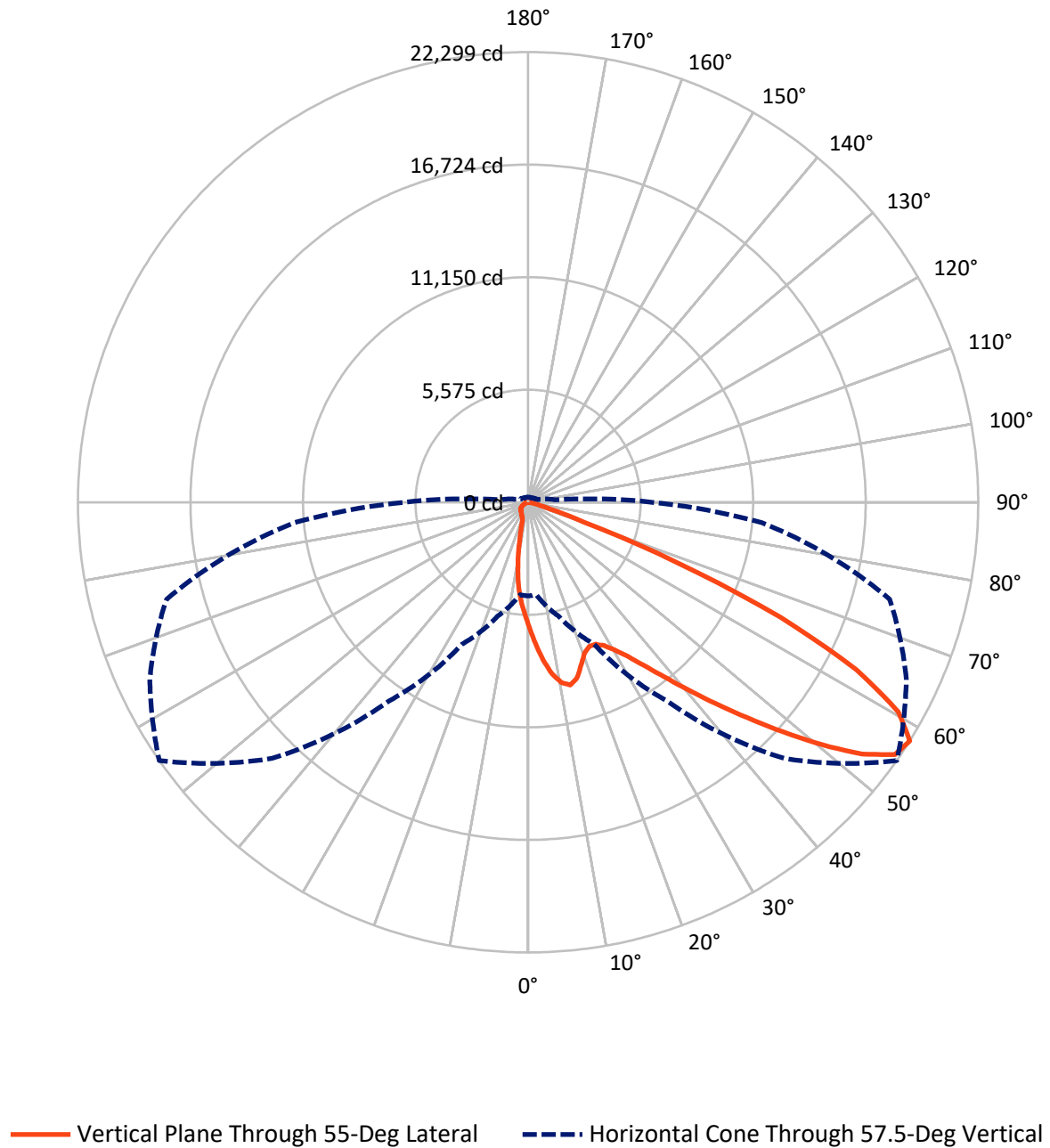


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1995.2	0.0	1995.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	23552.8	0.0	23552.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	25548.0	0.0	25548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.8	2.2
10°-20°	1383.7	5.4
20°-30°	2213.8	8.7
30°-40°	3747.0	14.7
40°-50°	6151.9	24.1
50°-60°	6761.3	26.5
60°-70°	3878.3	15.2
70°-80°	792.4	3.1
80°-90°	46.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25548.0	100.0
0°-180°	25548.0	100.0

Coefficient of Utilization



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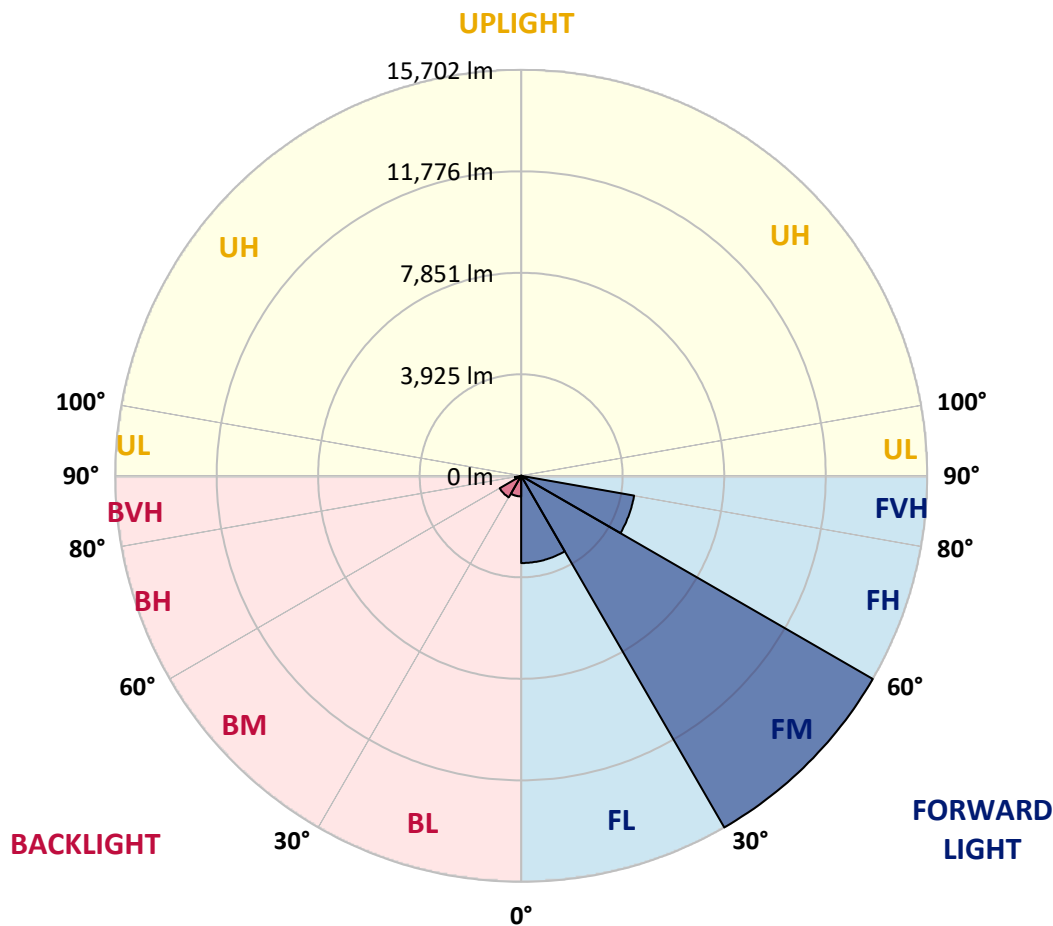
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3373.8	13.2			
FM	(30°-60°)	15702.0	61.5			
FH	(60°-80°)	4433.4	17.4			G2/5000
FVH	(80°-90°)	43.6	0.2			G1/100
BL	(0°-30°)	796.5	3.1	B2/1000		
BM	(30°-60°)	958.2	3.8	B1/1000		
BH	(60°-80°)	237.3	0.9	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4
2.5°	7638.8	7542.7	7528.6	7509.7	7326.9	7189.9	6991.4	6774.0	6529.8	6280.9	6170.6
5°	8825.1	8749.5	8735.3	8647.1	8439.1	8206.0	7853.1	7407.3	6952.0	6416.4	6186.4
7.5°	9055.1	9040.9	9105.5	9102.3	9074.0	8889.7	8591.9	8061.0	7377.3	6583.4	6227.3
10°	8029.5	8065.8	8257.9	8426.5	8881.8	9146.4	9081.8	8643.9	7815.3	6774.0	6273.0
12.5°	7095.3	7052.8	7189.9	7380.5	7909.8	8697.5	9285.1	9130.7	8316.2	6989.8	6340.8
15°	6509.3	6492.0	6569.2	6657.4	7060.7	7854.7	9048.8	9526.1	8798.3	7245.0	6443.2
17.5°	6321.8	6307.7	6331.3	6353.4	6614.9	7229.2	8486.4	9768.7	9259.9	7536.4	6556.6
20°	6474.7	6455.8	6452.6	6435.3	6544.0	6963.0	7977.5	9786.0	9674.2	7801.1	6654.2
22.5°	6920.5	6898.4	6821.2	6751.9	6761.4	6999.2	7750.7	9612.7	9986.1	8048.4	6715.7
25°	7728.6	7692.4	7531.7	7298.6	7150.5	7251.3	7785.3	9384.3	10283.8	8242.2	6685.8
27.5°	8740.0	8692.7	8486.4	8139.8	7801.1	7678.2	8035.8	9226.8	10531.2	8390.3	6621.2
30°	9730.9	9669.5	9466.2	9196.8	8702.2	8314.7	8487.9	9296.1	10825.8	8544.7	6536.1
32.5°	10800.5	10742.3	10472.9	10138.9	9729.3	9207.9	9107.1	9634.8	11186.5	8760.5	6476.2
35°	12153.8	12062.4	11679.6	11224.3	10789.5	10261.8	9945.1	10219.2	11667.0	9089.7	6509.3
37.5°	13694.5	13571.6	13158.8	12530.3	11963.2	11372.4	10966.0	11022.7	12371.2	9530.8	6611.7
40°	15146.9	15035.1	14653.8	14061.5	13349.5	12632.7	12199.5	12073.4	13343.2	10068.0	6791.3
42.5°	16018.1	15917.3	15756.6	15506.1	14905.9	14174.9	13628.3	13355.8	14493.2	10710.8	7010.3
45°	16066.9	15978.7	16194.5	16486.0	16367.8	15881.0	15214.7	14715.3	15647.9	11314.1	7237.1
47.5°	15285.5	15225.7	15881.0	16898.7	17406.0	17610.8	16996.4	15961.4	16601.0	11747.3	7330.1
50°	13155.7	13133.6	14482.1	16350.5	17801.4	19126.2	18875.8	17120.8	17339.8	11971.0	7241.8
52.5°	11407.1	11326.7	12112.8	14595.5	17226.4	19923.4	20712.6	18258.2	17856.5	12013.6	7035.5
55°	8651.8	8580.9	9567.1	11659.1	15372.2	19639.8	22056.4	19431.8	18226.7	11904.9	6665.3
57.5°	4641.0	4596.8	5842.9	7760.1	12016.7	17938.4	22299.0	20673.2	18538.6	11616.6	6147.0
60°	1806.9	1799.0	2265.3	3765.1	7303.3	14594.0	21074.9	21418.4	18734.0	11262.1	5713.8
62.5°	1093.3	1116.9	1192.5	1690.3	3226.3	9066.1	18253.5	20570.8	18864.7	10937.6	5356.2
65°	904.2	905.8	915.3	1161.0	1545.4	3793.4	13741.7	17782.5	18541.8	10359.5	4848.9
67.5°	775.1	789.2	825.5	921.6	1090.1	1663.6	7911.4	13774.8	16577.3	9014.1	4058.1
70°	611.2	630.1	675.8	757.7	841.2	1041.3	2923.8	9165.3	12664.2	6794.5	3068.8
72.5°	515.1	513.6	537.2	616.0	667.9	732.5	1124.8	5135.6	7360.0	3243.6	1518.6
75°	398.6	414.3	444.2	515.1	546.6	530.9	609.7	1876.2	2637.1	983.0	516.7
77.5°	311.9	324.5	351.3	420.6	452.1	376.5	351.3	671.1	847.5	352.9	233.2
80°	140.2	151.2	239.5	310.3	368.6	259.9	190.6	343.4	376.5	160.7	118.2
82.5°	25.2	42.5	140.2	163.8	189.0	168.6	99.2	178.0	184.3	64.6	41.0
85°	1.6	3.2	48.8	59.9	75.6	55.1	29.9	70.9	61.4	22.1	15.8
87.5°	0.0	0.0	0.0	1.6	1.6	7.9	9.5	12.6	9.5	7.9	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4	6156.4
2.5°	6057.2	5833.5	5616.1	5438.1	5334.1	5157.7	5041.1	5022.2	4973.4	5015.9
5°	5940.6	5540.5	5135.6	4773.3	4475.5	4091.2	3804.5	3683.2	3577.6	3613.8
7.5°	5885.5	5253.8	4623.6	4004.5	3368.1	2753.7	2296.8	2106.2	1961.3	1981.8
10°	5811.4	4956.0	3968.3	3023.1	2170.8	1564.3	1249.2	1132.7	1068.1	1069.7
12.5°	5754.7	4600.0	3207.4	2049.5	1321.7	998.8	901.1	872.7	853.8	855.4
15°	5726.4	4181.0	2456.0	1365.8	945.2	846.0	822.3	809.7	797.1	795.5
17.5°	5679.1	3714.7	1797.5	997.2	827.1	792.4	771.9	757.7	742.0	738.8
20°	5608.2	3185.3	1313.8	842.8	775.1	748.3	719.9	701.0	682.1	679.0
22.5°	5477.5	2626.1	1009.8	779.8	737.3	707.3	672.7	650.6	631.7	628.6
25°	5234.9	2101.5	850.7	740.4	704.2	667.9	630.1	600.2	582.9	579.7
27.5°	4927.7	1651.0	771.9	704.2	661.6	628.6	586.0	557.7	541.9	538.8
30°	4565.3	1271.3	726.2	663.2	611.2	582.9	545.1	521.4	512.0	512.0
32.5°	4174.7	1016.1	707.3	622.3	567.1	535.6	505.7	496.2	493.1	491.5
35°	3807.6	882.2	697.9	589.2	527.7	497.8	485.2	486.8	493.1	493.1
37.5°	3481.5	839.7	693.2	565.5	493.1	466.3	474.2	488.4	482.1	482.1
40°	3186.9	844.4	690.0	548.2	464.7	449.0	464.7	453.7	437.9	436.4
42.5°	2961.6	883.8	683.7	534.0	447.4	436.4	430.1	412.7	411.2	414.3
45°	2797.8	918.4	682.1	527.7	428.5	408.0	400.1	382.8	414.3	422.2
47.5°	2604.0	918.4	682.1	505.7	397.0	389.1	376.5	357.6	389.1	397.0
50°	2353.6	860.1	655.3	480.5	371.8	367.1	345.0	321.4	315.1	319.8
52.5°	2036.9	754.6	587.6	445.8	346.6	337.1	310.3	293.0	288.3	288.3
55°	1676.2	631.7	496.2	395.4	319.8	302.5	283.6	275.7	271.0	267.8
57.5°	1362.7	518.3	398.6	351.3	294.6	272.5	266.2	256.8	248.9	244.2
60°	1118.5	408.0	329.2	311.9	269.4	248.9	247.3	234.7	214.2	211.1
62.5°	863.3	299.3	277.3	271.0	244.2	226.8	223.7	198.5	167.0	160.7
65°	609.7	233.2	223.7	237.9	217.4	201.6	193.8	156.0	122.9	118.2
67.5°	428.5	195.3	176.4	207.9	189.0	168.6	163.8	132.3	102.4	99.2
70°	305.6	159.1	144.9	178.0	151.2	148.1	138.6	110.3	83.5	80.3
72.5°	215.8	121.3	111.8	154.4	104.0	127.6	113.4	85.1	63.0	59.9
75°	159.1	86.6	78.8	89.8	75.6	96.1	80.3	56.7	39.4	37.8
77.5°	116.6	55.1	47.3	44.1	44.1	59.9	44.1	23.6	17.3	15.8
80°	81.9	25.2	22.1	18.9	17.3	14.2	6.3	3.2	1.6	1.6
82.5°	48.8	11.0	11.0	7.9	4.7	0.0	0.0	0.0	0.0	0.0
85°	11.0	4.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)